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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,591	10/06/2006	David K.R. Karaolis	KARAOLISIA 2282	
	7590 12/13/2007 D NEIMARK P.I.I.C		EXAMINER	
BROWDY AND NEIMARK, P.L.L.C. 624 NINTH STREET, NW			ARCHIE, NINA	
SUITE 300 WASHINGTO	N, DC 20001-5303		ART UNIT	PAPER NUMBER
WISIMITOTO	511, 100 20001 0505	,	1645	
			MAIL DATE	DELIVERY MODE
			12/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/565,591	KARAOLIS, DAVID K.R.		
		Examiner	Art Unit		
		Nina A. Archie	1645		
The MAIL Period for Reply	ING DATE of this communication app	ears on the cover sheet with the o	correspondence address		
A SHORTENED WHICHEVER IS - Extensions of time m after SIX (6) MONTH - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD FOR REPLY LONGER, FROM THE MAILING DA ay be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. is specified above, the maximum statutory period on the set or extended period for reply will, by statute of the Office later than three months after the mailing djustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed It the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
2a) ☐ This action 3) ☐ Since this	e to communication(s) filed on <u>23 Fe</u> n is FINAL . 2b)⊠ This application is in condition for allowar accordance with the practice under E	action is non-final. nce except for formal matters, pr			
Disposition of Clair	ns				
4a) Of the a 5) ☐ Claim(s) _ 6) ☐ Claim(s) _ 7) ☐ Claim(s) _	-30 is/are pending in the application above claim(s) is/are withdraw is/are allowed is/are rejected is/are objected to is/are subject to restriction and/or or allowed.	wn from consideration.			
Application Papers					
10)∭ The drawin Applicant m Replaceme	cation is objected to by the Examine ag(s) filed on is/are: a) accompay not request that any objection to the ont drawing sheet(s) including the correct received accompanies of the Examine.	epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).		
Priority under 35 U	.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	rson's Patent Drawing Review (PTO-948) sure Statement(s) (PTO/SB/08)	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date		

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- 1. Group I: claims 1-21, and 28-30 drawn to a method for attenuating the virulence of a microbial pathogen and a method for inhibiting microbial colonization and biofilm formation.
- 2. Group II: claims 22-25 drawn to a pharmaceutical composition.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature of Group II is a pharmaceutical composition. The technical feature of Group 1 is anticipated by Mayer et al 1991 Proc. Natl. Acad. Sci USA Vol. 88 pgs. 5472-5476. Mayer et al teach a pharmaceutical composition comprising c-di-GMP as an active ingredient and a pharmaceutically acceptable carrier (TME buffer) or excipient (see Materials and Methods pg. 5472). The special technical feature of Group I is a method of Group I, a pharmaceutical composition. Group II lacks unity with Group I because they do not have the same technical feature.

Election of Species

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because

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they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

If the Applicant elects Group II, the Applicant is required to elect a single individual species from Group II listed below.

Species-cyclic dinucleotide compound;

Compounds I-XIX

Applicant must elect a compound from the species of cyclic dinucleotide compounds I-XIX.

If the Applicant elects Group II, the Applicant must further elect a single individual species from Group II listed below.

Species-c-di-GMP

- A) Agonist
- B) Antagonist

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence

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or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nina Archie whose telephone number is 571-272-9938. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor, Shannon Foley can be reached on 571-272-8975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nina Archie Patent Examiner Art unit, 1645 Remsen 3B31

MARK NAVARRO
PRIMARY EXAMINER